

C3.158: M3-171) - 10 CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders

October 1971







SERIES: M3-1(71)-10

FOR RELEASE: December 1, 1971

SUMMARY

New orders for manufactured products in October at \$57.2 billion decreased \$100 million, virtually no change from \$57.3 billion in September (revised from \$56.9 billion) after seasonal adjustment. Shipments decreased \$500 million or 0.8 percent to \$57.4 billion from \$57.9 billion in Unfilled orders decreased \$200 September. million or 0.2 percent to \$77.2 billion at the end of October. Manufacturers' inventories increased \$300 million to \$100.6 billion at the end of October. The inventories to shipments ratio increased from 1.73 to 1.75.

For the 3 months ending in October, the average change in new orders represents a 0.6 percent decrease compared with a 1.0 percent increase for the 3 months ending in July and a 0.4 percent decrease for the 3 months ending in April.

NEW ORDERS

New orders for durable goods at \$31.2 billion increased \$200 million or 0.6 percent over September. New orders for the machinery industries (electrical and nonelectrical) increased \$400 million to \$10.1 billion and transportation equipment decreased \$200 million to \$7.0 billion. Among the supplementary series, new orders for defense products increased \$500 million to \$2.0 billion and producers' capital good?/Increased \$400 million to \$6.9 billion

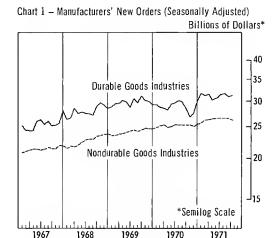
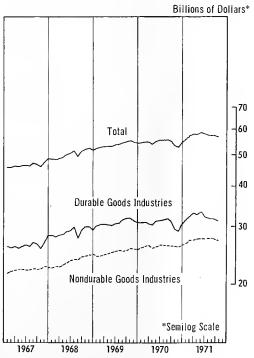


Chart 2 - Manufacturers' Shipments (Seasonally Adjusted)



For sale by the Bureau of the Census, Washington, D.C. 20233. Price 15 cents per copy, \$1.50 per year.

SHIPMENTS

Shipments of durable goods decreased \$200 million or 0.6 percent to \$31.3 billion inOctober. Shipments of transportation equipment decreased \$300 million while primary metals increased \$200 million. Shipments of nondurable goods decreased \$300 million to \$26.1 billion.

UNFILLED ORDERS

Unfilled orders for durable goods decreased \$100 million or 0.2 percent to \$74.2 billion at the end of October. Decreases in unfilled orders of \$300 million in transportation equipment and \$200 million in fabricated metal products were partially offset by a \$400 million increase in the machinery industries (electrical and nonelectrical).

INVENTORIES

Inventories of durable goods decreased \$100 million as nondurable goods increased \$400 million. At the all manufacturing level, materials and supplies decreased \$100 million, work in process increased \$100 million, and finished goods increased \$400 million.

SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The advance report is based on a tabulation of early reports and is limited to statistics on shipments, new orders, and unfilled orders for a few broad industry categories. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for November is scheduled for release on December 22, 1971 and the full report is scheduled for release on January 4, 1972.

For an explanation of terms used in this report see appendix following table 5.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233.

Chart 3 — Manufacturers' Unfilled Orders (Seasonally Adjusted)

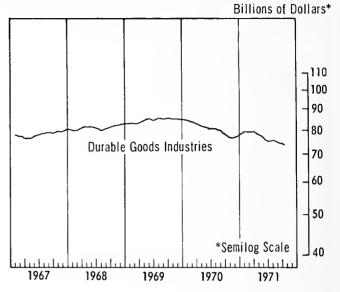
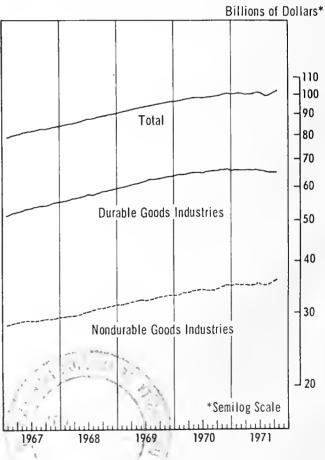


Chart 4 - Total Inventory (Seasonally Adjusted)



(Millions of dollars)

			(Million	s of dol	lars)							
	Season	ally adj	usted		out seas justment		Season	ally adj	usted		out seas justment	ona l
Industry group	0ct. 1971 ^p	Sept. 1971	Aug. 1971	Oct. 1971 ^p	Sept 1971	Oct. 1970	Oct. 1971 ^p	Sept. 1971	Aug. 1971	Oct. 1971 ^p	Sept. 1971	Oct. 1970
			Shipm	ents					Total in	ventorie	S	
All manufacturing industries: Total Total, excluding transportation	57,402 50,127	57,892 50,272	57,804 49,889	60,093 52,178	60,282 52,656	55,415 49,311	100,579 87,032	100,266 86,773	100,063 86,493	99,791 86,151	99,381 85,798	99,501 85,136
Durable goods industries, total	31,348	31,543	31,464	32,807	32,627	29,133	64,490	64,563	64,523	63,963	64,090	64,696
Stone, clay, and glass products	1,785	1,758	1,831	1,958	1,925	1,600	2,305	2,293	2,302	2,177	2,198	2,176
Primary metals, total	4,459 1,896 2,563	4,270 1,706 2,564	3,991 1,457 2,534	4,469 1,792 2,677	4,237 1,629 2,608	4,409 1,951 2,458	9,257 4,875 4,382	9,230 4,875 4,355	8,953 4,635 4,318	9,263 4,933 4,330	9,168 4,846 4,322	9,122 4,924 4,198
Fabricated metal products, total Metal cans, barrels, and drums	3,583 352	3,680 364	3,679 351	3,725 341	3,802 406	3,599 321	7,346 723	7,403 755	7,519 800	7,220 696	7,340 743	6,821 759
Machinery, except electrical, total Engines and turbines Farm machinery and equipment Construction, mining, and material handling equipment Metalworking machinery	5,122 318 464 835 378	5,186 327 484 858 392	4,983 305 497 839 370	5,172 298 552 805 372	5,334 354 515 878 413	4,539 253 416 763 299	13,595 967 1,030 2,651 1,184	13,686 932 1,084 2,686 1,200	13,745 937 1,103 2,713 1,190	13,434 972 979 2,593 1,188	13,522 925 1,045 2,635 1,191	13,804 959 1,096 2,486 1,238
General industrial machinery	436	416	416	457	439	414	1,146	1,147	1,146	1,121	1,132	1,134
Electrical machinery, total Electrical transmission and distribution equipment and industrial apparatus Household appliances, including radio	4,550 969	4,523 925	4,513 892	4,743 955	4,845 963	4,572 851	9,820 2,186	9,902 2,203	9,885 2,209	9,718 2,169	9,802	10,193 2,157
and TVCommunication equipment	916	937	962 1,231	1,023	1,108 1,265	1,015 1,312	1,940	1,961 2,956	1,953 2,921	1,881	1,902	1,991
Transportation equipment, total	1,204 7,275 4,759 1,839	7,620 5,153 1,782	7,915 5,303 1,930	1,231 7,915 5,416 1,854	7,626 5,188 1,762	6,104 3,177 2,293	2,929 13,547 3,878 7,424	13,493 3,854 7,427	13,570 4,015 7,365	2,924 13,640 3,960 7,451	2,944 13,583 4,012 7,413	3,140 14,365 4,045 8,343
Instruments and related products	1,018	989 3,517	969 3,583	1,078 3,747	1,088 3,770	1,020 3,290	2,400 6,220	2,369 6,187	2,356 6,193	2,381 6,130	2,347 6,130	2,403 5,812
Nondurable goods industries, total		26,349	26,340	27,286	27,655	26,282	36,089	35,703	35,540	35,828	35,291	34,805
Food and kindred products, total Meat products	8,679 1,907	8,667 1,927	8,683 1,910	9,158 2,001	9,251 1,952	8,814 2,125	9,091 818	8,909 849	8,818 853	9,389 817	8,900 798	8,876 782
Tobacco products Textile mill products	512 (²)	503 (²)	488 (²)	501 (²)	520 (²)	469 (²)	2,207 (²)	2,185 (²)	2,129 (²)	2,187 (²)	2,107 (2)	2,175 (²)
Paper and allied products, total Pulp, paper, etc	2,179 906	2,211 925	2,270 965	2,279 934	2,299 934	2,167 910	2,772 1,022	2,740 1,013	2,711 1,014	2,734 1,022	2,701 998	2,666 990
Chemicals and allied products, total Industrial chemicals, except pigments	4,265 1,374	4,459 1,451	4,305 1,404	4,367 1,386	4,673 1,486	4,072 1,290	6,697 1,889	6,691 1,878	6,729 1,882	6,536 1,854	6,572 1,854	6,496 1,908
Petroleum and coal products	2,384 1,575 6,460	2,308 1,637 6,564	2,293 1,682 6,619	2,391 1,660 6,930	2,347 1,649 6,916	2,242 1,484 7,034	2,465 2,113 10,744	2,459 2,064 10,655	2,471 2,095 10,587	2,506 2,084 10,392	2,479 2,035 10,497	2,408 2,106 10,078
			New o	rders			l		Unfilled	orders		
All manufacturing industries: Total		57,322	58,085	59,916	60,019	54,151	77,161	77,325	77,898	77,331	77,513	79,754
Total, excluding transportation	50,282	50,192	50,162	52,175	52,671	48,600	53,353	53,197	53,280	53,149	53,158	53,684
Durable goods industries, total		31,026	31,758	32,638	32,432	27,769	74,219	74,362	74,879	74,397	74,568	76,791
Primary metals, total Blast furnaces, steel mills	4,518 1,958	4,517 2,020	4,184 1,701	4,594 1,910	4,361 1,847	4,215 1,906	5,672 2,945	5,612 2,883	5,366 2,569	5,297 2,632	5,173 2,514	5,857 2,946
Fabricated metal products	3,338	3,520	3,577	3,496	3,694	3,635	10,453	10,698	10,859	10,494	10,724	10,903
Machinery, except electrical, total Engines and turbines Construction, mining, and material	5,342 432	5,105 332	5,072 368	5,374 404	5,223 359	4,383 231	14,497 5,093	14,279 4,979	14,360 4,974	14,508 5,104	14,308 4,999	14,430 4,591
handling equipment Metalworking machinery General industrial machinery	866 378 453	848 406 387	910 380 437	817 364 458	847 414 416	775 266 383	2,486 1,075 1,246	2,456 1,075 1,229	2,466 1,061 1,258	2,412 1,073 1,260	2,400 1,082 1,259	2,503 1,262 1,114
Electrical machinery, total Electrical transmission and distribution equipment and industrial apparatus	4,748	4,628	4,584	4,800	5,198	4,210	14,695	14,500	14,393	14,850	14,793	14,443
Household appliances, including radio and TV.	1,085	915 920	943	1,007	901	770 974	4,087 673	3,972 638	3,982 654	3,984 704	3,932 699	3,910 693
Communication equipment	1,205	1,338	1,212	1,262	1,677	1,260	6,031	6,029	5,936	6,326	6,295	5,865
Transportation equipment, total	6,955 1,590	7,130 1,348	7,923 1,985	7,741 1,687	7,348 1,500	5,551 1,525	23,808 17,312	24,128 17,461	24,618 17,895	24,182 17,445	24,355 17,611	26,070 20,002
All other durable goods industries	6,307	6,126	6,418	6,633	6,608	5,775	5,094	5,145	5,283	5,066	5,215	5,088
Nondurable goods industries, total Industries with unfilled orders	26,029 6,871	26,296 7,006	26,327 7,201	27,278 7,330	27,587 7,302	26,382 7,092	2,942 2,942	2,963 2,963	3,019 3,019	2,934 2,934	2,945 2,945	2,963 2,963
Industries without unfilled orders	19,158	19,290	19,126	19,948	20,285	19,290	-	_		-		

⁻ Represents zero. Preliminary. Revised.

Adjusted for trading-day and calendar-month variations.

Beginning with July 1971, the shipments level for this series appears to be high compared with information shown in other textile series. All data for this industry group are, therefore, withheld pending investigation and revision.

Table 2.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES
(Millions of dollars)

Industry group	Seasonally adjusted			Without seasonal adjustment ¹			Season	ally adj	usted	Without seasonal adjustment			
industry group	0ct. 1971 ^p	Sept. 1971 [†]	Aug. 1971	0ct. 1971 ^p	Sept 1971	0ct. 1970	0ct. 1971 ^p	Sept. 1971 ^r	Aug. 1971	0ct. 1971 ^p	Sept. 1971	0ct. 1970	
	Shipments						Total inventories						
All manufacturing industries, total	57,402	57,892	57,804	60,093	60,282	55,415	100,579	100,266	100,063	99,791	99,381	99,501	
Durable goods industries, total Nondurable goods industries, total	31,348 26,054	31,543 26,349	31,464 26,340	32,807 27,286	32,627 27,655	29,133 26,282		64,563 35,703	64,523 35,540	63,963 35,828	64,090 35,291	64,696 34,805	
Industry groups arranged by market categories:													
Home goods and apparel	5,220 11,310	5,299 11,332	5,322 11,279	5,707 11,966	5,833 12,090	5,785 11,412		10,839 13,842	10,726 13,659	10,560 14,038	10,621 13,756	10,129 13,524	
automotive Automotive equipment Construction materials, supplies, and	8,581 5,280	8,509 5,733	8,484 5,889	8,626 5,975	8,691 5,788	8,244 3,861	25,239 5,087	25,398 5,028	25,372 5,198	25,091 5,108	25,133 5,137	26,069 5,184	
intermediate products	5,177	5,188	5,334	5,528	5,582	4,733	8,283	8,169	8,200	8,055	8,003	7,620	
intermediate products	21,834	21,831	21,496	22,291	22,298	21,380	37,208	36,990	36,908	36,939	36,731	36,975	
Supplementary series: ² Household durable goods industries Producers' capital goods industries Defense products industries (old series). Defense products (new series)*	2,356 6,664 3,475 1,795	2,397 6,652 3,431 1,765	2,419 6,435 3,584 2,077	2,621 6,618 3,492 1,798	2,719 6.853 3,424 1,752	2,427 5,787 4,033 2,133	4,964 17,392 11,256 5,469	4,938 17,461 11,295 5,412	4,917 17,501 11,191 5,282	4,823 17,280 11,265 5,486	4,852 17,285 11,251 5,378	4,765 17,321 12,389 6,793	
			New o	rders			Unfilled orders						
All manufacturing industries, total	57,237	57,322	58,085	59,916	60,019	54,151	77,161	77,325	77,898	77,331	77,513	79,754	
Durable goods industries, total Nondurable goods industries, total	31,208 26,029	31,026 26,296	31,758 26,327	32,638 27,278	32,432 27,587	27,769 26,382	74,219 2,942	74,362 2,963	74,879 3,019	74,397 2,934	74.568 2,945	76,791 2,963	
Industry groups arranged by market categories: Home goods and apparel	5,260 11,331	5,275 11,321	5,361 11,282	5,673 11,998	5,798 12,091	5,686 11,431	2,188	2,129	2,163	2,224	2,228	1,991	
automotive	8,509 5,369	7,974 5,774	8,509 5,863	8,602 6,019	8,601 5,842	7,903 3,799	42,610	42,594	43,091	43,107	43,089	43,716	
intermediate productsOther materials and supplies and intermediate products	5,005 21,763	5,006 21,972	5,209 21,861	5,313 22,311	5,438 22,249	4,768 20,564	10,102 22,261	10,274	10,456 22,188	10,126	10,341 21,855	10,438 23,609	
Supplementary series: Household durable goods industries Producers' capital goods industries Defense products industries (old series). Defense products (new series)*	2,390 6,864 3,197 1,950	2,379 6,425 3,018 1,467	2,457 6,551 3,634 2,154	2,579 6,829 3,335 2,141	2,688 6,565 3,525 1,786	2,320 5,811 3,277 2,091	22,958 23,845	1,769 22,759 24,122 18,880	1,786 22,986 24,535 19,177	1,827 23,055 24,371 19,534	1,868 22,845 24,527 19,192	1,627 22,483 26,595 19,925	

^{*}During 1968 manufacturers in ordnance, communications, aircraft and aircraft parts, and shipbuilding industries began to provide aggregate figures on shipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in these new defense series. Since there are no historic data available to develop separate seasonal factors for these reporters, the data have been seasonally adjusted using the factors of these industries. Preliminary. Revised. Shipments and new orders adjusted for trading-day and calendar-month variations; unfilled orders and inventories as of end of month. The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Producers' capital goods 'formerly machinery and equipment industries - Machinery, except electrical excluding farm machinery and equipment and machine shops', electrical machinery excluding household appliances, communication equipment and electronic components), shipbuilding and repairing, and railroad and street car equipment.

Defense products industries (old series) - Based on reports for companies classified in the communication equipment, complete air-craft, aircraft parts, and ordnance industries. (Thus, this series includes significant amounts of nondefense work in these industries and omits defense work performed in the shipbuilding industry.)

Defense products (new series) - 8ased on separate reports on defense work filed by large defense contractors in the following industries: ordnance, communications, complete aircraft, aircraft parts, and shipbuilding. Thus, it differs from the old series in that it includes defense activity in shipbuilding and excludes nondefense work in ordnance, communications, complete aircraft, and aircraft parts. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES (Based on seasonally adjusted data)

	Mo	nth-to-mon	th	Ave	rage monthl	Average, 1965-1970			
Item and industry group	Sept	Aug	July-		3 months	12 months			
ream and modern group	Oct. 1971	Sept. 1971	Aug. 1971	July- Oct. 1971	Apr July 1971	Jan Apr. 1971	Oct. 1970- Oct. 1971	Average rise	Average decline
Shipments: All manufacturing industries	-0.8	+0.2	-1.1	-0.6	+0.4	+1.2	+0.6	+1.1	-1.2
Durable goods industries, total Nondurable goods industries, total	-0.6 -1.1	+0.3	-2.1 +0.2	-0.8 -0.3	+0.9	+1.3 +1.1	+0.9	+1.8 +1.0	-1.8 -0.6
Total inventories: All manufacturing industries	+0.3	+0.2	-0.1	+0.1	-0.1	-0.2	0.0	+0.7	-0.3
New orders: All manufacturing industries Durable goods industries, total Nondurable goods industries, total	-0.1 +0.6 -1.0	-1.3 -2.3 -0.1	-0.3 -0.6 +0.1	-0.6 -0.8 -0.3	+1.0 +1.9 -0.1	-0.4 -1.5	+0.8 +1.3 +0.3	+1.9 +3.2 +1.0	-1.4 -2.3 -0.6
Unfilled orders: Durable goods industries, total	-0.2	-0.7	+0.4	-0.2	-1.5	-0.4	-0.3	+1.1	-0.

Table 4 .-- VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP (Millions of dollars)

Industry group	Season	ally adj	usted		out seas djustmen		Season	ally adj	usted		out seas djustmen	
industry group	Oct. 1971 ^p	Sept 1971	Aug. 1971	0ct. 1971 ^p	Sept. 1971 ^r	Oct. 1970	Oct. 1971P	Sept. 1971 ^r	Aug. 1971		Sept. 1971 ^r	Oct. 1970
		Total Materials and supplies								ies		
All manufacturing industries, total	100,579	100,266	100,063	99,791	99,381	99,501	32,249	32,354	32,736	32,382	32,409	31,717
Durable goods industries, total	64,490	64,563	64,523	63,963	64,090	64,696	18,900	19,306	19,709	19,098	19,573	19,067
Stone, clay, and glass products Primary metals	2,305 9,257 23,415 13,547 15,966	2,293 9,230 23,588 13,493 15,959	2,302 8,953 23,630 13,570 16,068	13,640	2,198 9,168 23,324 13,583 15,817		743 3,470 6,188 2,811 5,688	755 3,519 6,376 2,814 5,842	758 3,436 6,496 3,012 6,007	738 3,610 6,174 2,879 5,697	754 3,627 6,367 2,931 5,894	735 3,464 6,252 3,224 5,392
Nondurable goods industries, total	36,089	35,703	35,540	35,828	35,291	34,805	13,349	13,048	13,027	13,284	12,836	12,650
Chemicals and allied products	6,697 2,465 2,113 24,814	6,691 2,459 2,064 24,489	6,729 2,471 2,095 24,245	6,536 2,506 2,084 24,702	6,572 2,479 2,035 24,205	6,496 2,408 2,106 23,795	2,328 560 647 9,814	2,343 567 622 9,516	2,357 588 639 9,443	2,308 563 654 9,759	2,322 563 636 9,315	2,255 555 701 9,139
			Work in	process					Finishe	d goods		
All manufacturing industries, total.	33,761	33,699 28,532	33,322 28,214	_ ′	33,522 28,369	34,602 29,515	'	34,213 16,725	34,005 16,600	33,803 16,308	33,450 16,148	33,182 16,114
Durable goods industries, total	28,673 297 3,101 10,589 9,348 5,338	304 3,112 10,602 9,290 5,224	309 3,024 10,555 9,158 5,168	273 3,061 10,530 9,388 5,305	285 3,052 10,520 9,311 5,201	294 3,109 11,277 9,708 5,127	1,265 2,686 6,638 1,388 4,940	1,234 2,599 6,610 1,389 4,893	1,235 2,493 6,579 1,400 4,893	1,166 2,592 6,448 1,373 4,729	1,159 2,489 6,437 1,341 4,722	1,147 2,549 6,468 1,433 4,517
Nondurable goods industries, total	5,083	5,167	5,108	5,049	5,153	5,087	17,652	17,488	17,405	17,495	17,302	17,068
Chemicals and allied products	867 469 327 3,425	879 466 320 3,502	862 457 320 3,469		878 469 328 3,478	844 450 330 3,463		3,469 1,426 1,122 11,471	3,510 1,426 1,136 11,333	3,363 1,474 1,098 11,560	3,372 1,447 1,071 11,412	3,397 1,403 1,075 11,193

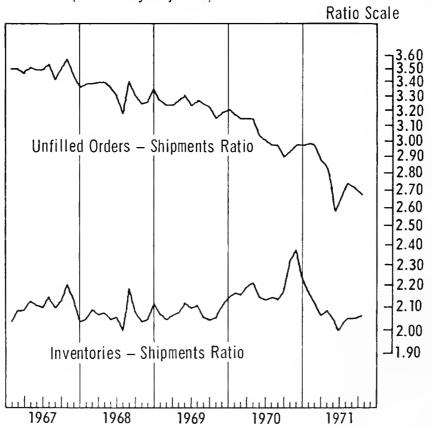
Preliminary.
Revised.

Table 5.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP
(Based on seasonally adjusted data)

Industry group	Inven	tories - sl	nipments r	atio	Unfilled orders - shipments ratio ¹ (months backlog)				
Industry group	Oct. 1971	Sept. 1971 ^r	Aug. 1971	0ct. 1970	Oct. 1971 ^p	Sept. 1971	* backlog Aug. 1971 2.26 2.74 NA) 1.34 3.26 2.88 (NA) 0.42 (X) (XA) (NA) (NA) (XA) (XA) (XA) (X) (X)	Oct. 1970	
All manufacturing industries, total	1.75	1.73	1.73	1.88	2.23	2.24	2.26	2.43	
Durable goods industries, total	2,06	2.05	2.05	2.32	2.68	2.71	2.74	2.93	
Stone, clay, and glass products. Primary metals.	1.29	1.30 2.16	1.26	1.58 2.05	(NA) 1.27	(NA) 1.31	1.34	(NA 1.4	
Fabricated metals. Machinery, except electrical	2.05 2.65 2.16	2.01 2.64 2.19	2.04 2.76 2.19	2.00 3.10 2.35	3.24 2.83 3.23	3.23 2.75 3.21	2.88	3.4° 3.20 3.2°	
Transportation equipment Instruments and related products	1.86 2.36	1.77 2.40	1.71 2.43	2.46 2.51	5.74 (NA)	5.97 (NA)		5.9 NA	
Nondurable goods industries, total	1.39	1.36	1.35	1.40	0.43	0.42	0.42	0.4	
Food and kindred products Tobacco products Textile mill products	1.05 4.31	1.03 4.34 (2)	1.02 4.36	1.03 4.58	(X) (X) (NA)	(X) (X) (NA)	(x)	(X - X (NA	
Paper and allied products. Chemicals and allied products.	1.27 1.57	1.24 1.50	1.19 1.56	1.31	(NA)	(NA) (X)	(NA)	(NA (X	
Petroleum and coal products	1.03 1.34	1.07 1.26	1,08 1,25	1.06 1.52	(X) (X)	(X) (X)	(X) (X)	(X	

NA) Not available. Preliminary. Revised. (X) Not applicable.

Chart 5 — Ratio of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, Durable Goods Industries (Seasonally Adjusted)



¹Excludes the following industries with no unfilled order: Wooden containers; glass containers; metal cans, barrels and drums; motor vehicle assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

²Beginning with July 1971, the shipments level for this series appears to be high compared with information shown in other textile series. All data for this industry group are, therefore, withheld pending investigation and revision.

Appendix

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF THE SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the annual survey of manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 estab-In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-1 does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

EXPLANATION OF TERMS

Value of Shipments--Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were net sales to outside customers. Although this

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definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories.—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (I IFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders --Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included. The respondent is instructed to deduct the sales value of paritial or complete cancellation of existing orders.

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.